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Lezdey et al

Serial No.:

09/957,012

Filed:

09/20/2001

For:

Oral Methods of Treatment

Box Amendment-Fee Commissioner for Patents Washington, DC. 20231

TRANSMITTAL

Dear Sir:

Please find enclosed for filing:

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Date: May 6, 2003

Docket No.: 1434-K

John Lezdey

Registration No. 22,735 John Lezdey & Associates 4625 East Bay Drive

Respectfully submitted,

Examiner:

Art Unit:

Coe

1654

Suite 302

Clearwater, FL 33764

(727) 539-0633

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Applicant:

Lezdey et al

Serial No.:

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For:

09/957,012

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Oral Methods of Treatment

Box Amendment-No Fee

Commissioner for Patents

Washington, DC. 20231

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Art Unit:

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Supplemental Response

Submitted is an attachment from the Merck Manual which was inadvertently omitted from the Amendment mailed May 1, 2003.

Respectfully submitted,

John Lezdey

Registration No. 22,735

John Lezdey & Associates 4625 East Bay Drive

Suite 302

Clearwater, FL. 33764

(727) 539-0633

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	20000	M		
Groce August	indition	Nonintiammatory	Irflammatory	Septor
e e e e e e e e e e e e e e e e e e e				
Viscosity	High	High		
Color	Coloriess	Yellow	Yellow	Variable
clarity.	Transparent	Transparent	Translucent	Variable
Routine laboratory				obaque
examination				
WBC count?	< 200/µL	200-2,000/µL	2,000−100,000/µL	>100,000 _{rs} 1
Culture	Negative	Negative	> 50	> 75
PMN = polymorphomoto-				Orien prompt

polymorphonuclear leukocytes.

bodies, as well as by leukocytes. *Extremely cloudy or opaque effusions can also be produced by crystals, tissue fragments, amyloid, or ear

effusions in SLE and other collagen diseases will be only equivocally inflammatory, with WBC court because tWBC count and PMN % in septic arthritis will be lower if organism is less virulent or partially treated Some

Modified from Gatter RA, McCarty DJ: "Synovianalysis." Itheumatism 20:2-6, 1964; used with permasuar.

of effusion suggests certain joint diseases, as shown in TABLE 105-4. inflammatory but tend to suggest diseases with less inflammatory mechanisms. Each type

confused with the crystals. Clumps of apatite crystals are not birefringent with polarization starch from gloves, and dirt also appear crystalline or as birefringent objects and may with alizarin red S to confirm that they are calcium-containing. light but appear as shiny, slightly irregular or "coinlike" particles. They can be stand corticosteroids, oxalate or other anticoagulants, glass fragments, fibrils from lens paper bipyramidal and birefringent. Cholesterol, other lipids, recently injected intra articular to 15 μ in length. Calcium oxalate crystals seen in some patients with renal failure en rod-shaped; CPPD crystals are rhomboid or rod-shaped. Most crystals of both types are: ie, blue in the direction that urates are yellow. Sodium urate crystals tend to be needs in slow vibration marked on the compensator (or the long axis of the slide). Calcium phosphate dihydrate (CPPD) crystals appear weakly birefringent with positive elements then appear strongly birefringent with *negative* elongation; ie, yellow parallel to the عملة الأ tape on a glass slide and placing this slide over the lower polarizer. Sodium urate crystal One can also reproduce the effects of a compensator by piacing 2 strips of clear adhering provided by inserting a first-order red plate, as in commercially available microscopes crystals with a shiny white birefringence will be visible. Compensated polarized light a polarized light, is essential for definitive diagnosis of gout. By placing an increase polarizer over the light source and another between the specimen and the examiner's even fluid or washings from a joint can be used for culture or examination of crystals), with Microscopic examination of a wet synovial fluid smear for crystals (even a few طعيمه الأ

mented villonodular synovitis). erythrocytes (due to sickle cell hemoglobinopathies), and iron in large mononucles מנוייו vial cells (identifiable by Prussian-blue stain, and representing hemochromatous or rug Gram or acid-fast stain), amyloid fragments (identifiable by Congo-red stain), salted tells formed in vivo, marrow spicules (due to fracture), specific organisms (idenufate է եր Other findings in synovial fluid that may yield or suggest a specific diagnosis include 13

the serum complement level in RA but is often higher in gout, Reiter's syndrome. evaluating inflammatory fluids. The synovial fluid complement level tends to be < 30% H Comparing synovial fluid and serum complement levels may occasionally be betytin

> inter-Ourtos syndrome nonmer pulmonary Matche diseases causing Sictive cell disease utisiting or early order deropathy Mindefrondromatosis Patrochordrits dissecans Muragoric (neuropathic) STANDARD marmaton SOAL PERSON Noruntammatory Systemic lupus erythematosus Rheumatic fever Partially treated or less Lyme diseaso Acute crystal synovitis Ankylosing spondylitis Reiter's syndrome Rheumatoic disease रegional enteritis Ulcerative colitis Psoriatic arthritis infections virulent bacterial pseudogout) (gout and Inflanimatory **Bacterial** Septic Infections imor Thrombocytopenia Anticoagulant 3 Hemophilia Hemangioma Veurogenic treatment rigmented rauma with or arthropathy (neuropathic) Hemormagic without fracture Synovitis villonodular

Progressive systemic sclerosis

functions effusions in which little protein is present. Both serum and synovial fluid comindextious arthritis. Synovial fluid complement levels will be low (ie, normal) in nonin-In the misleading false-positive or false-negative results. Extremely low synovial fluid

DIFFUSE CONNECTIVE TISSUE DISEASE

RHEUMATOID ARTHRITIS (RA) a collagen

perpheral joints, potentially resulting in progressive destruction of articular and periar-Actor and Incidence หม่ม structures; generalized manifestations may also be present. A chronic syndrome characterized by nonspecific, usually symmetric inflammation of the

Botom Exology is unknown. The immunologic changes (see also AUTOIMMUNE DISORDERS TO 20) may be initiated by multiple factors. About 1% of all populations are affected, within 2 to 3 times more commonly than men. Onset may be at any age, but it most often

minally perivenular but later forming lymphoid follicles with germinal centers, synthesize macrials. including collagenase, interleukin-I, and prostaglandins. The colonizing cells, and colonization by lymphocytes and plasma cells. The lining cells produce a variety of Tillies folds and thickens because of increased numbers and size of synovial lining cells In chronically affected joints, the normally delicate synovial membrane develops many

interleukin-2, other kinins, rheumatoid factor (RF) and other immunoglobulins. Fibra: 3: capsule, and ligaments. Polymorphonuclear leukocytes are not prominent in the syncory but often predominate in the synovial fluid. tic. Hypérplastic synovial tissue (pannus) may erode cartilage, subchondral bone, arxular position, fibrosis, and necrosis also are present. These findings are typical but not diagn.

ceral organs in severe cases of RA but are clinically significant in only a few cases. cytes and plasma cells. Nodules and vasculitis have been found at necropsy in many vamononuclear cells with their long axes radiating from the center, all enveloped by lymph. at sites subject to trauma, is the most characteristic pathologic lesion. It is a nonspecific necrobiotic granuloma consisting of a central necrotic area surrounded by 'palisaded The rheumatoid nodule, seen in 30 to 40% of patients and usually found subcutancock.

Thus Onset may be abrupt, with simultaneous inflammation in manage of the quently) insidious, with progressive joint involvement. Tendemess in nearly all "active physical sign. Synovial thickening, the most specific involvement of small progressive physical sign. Synovial thickening involvement of small progressions are the most specific involvement of small progressions. page of the extensor tendons off the metacarpophalangeal joints is typical. The carpularly flexion contractures, may develop rapidly. Ulnar deviation of the fingers with siginactivity is common; early afternoon fatigue and malaise also occur. Deformities, panky occur in any joint. Stiffness lasting > 30 min on arising in the morning or after prolonged sophalangeal joints), wrists, elbows, and ankles is typical, but initial manifestations run hand joints (especially proximal interphalangeal and metacarpophalangeal), feet (metatatunnel syndrome can result from wrist synovitis. Ruptured popliteal cysts can mimic decr physical finding, eventually occurs in most active joints. Symmetric involvement of small (inflamed) joints is the most sensitive physical sign. Synovial thickening, the most specific

systemic features (see also JUVENILE RHEUMATOID ARTHRITIS in Ch. 200). cept in the adult-onset Still's disease, a seronegative RA-like polyarthritis with prominent are other extra-articular manifestations. Fever may be present and is usually low-grade, etplex, pleural or pericardial effusions, lymphadenopathy, Sjögren's syndrome, and episcleris major aid in diagnosis. Visceral nodules, vasculitis causing leg ulcers or mononeurits mu.'s. Subcutaneous rheumatoid nodules, though not usually an early manifestation, can ke

Laboratory and X-ray Findings

on mayor as 8 gm/dL. Superimposed iron deficiency or other causes of anemia should be sought if diseases, is found in 80% of cases; the Hb is usually > 10 gm/dL but may rarely be as less (Felty's syndrome). Mild polyclonal hypergammaglobulinemia and thrombocytosis may to the Hb is < 10 gm/dL. Neutropenia is found in 2% of cases, often with splenomegal, A normochromic (or slightly hypochromic)-normocytic anemia, typical of other chrys:

decreases. disease, nodules, vasculitis, and pulmonary involvement. The titer can be influenced by tion titer of 1:160 is considered the lowest positive value favoring a diagnosis of RA. A sensitized sheep cell test using rabbit IgG. In most laboratories, a latex fixation tube dilu show IgM RF, are found in about 70% of cases. Though RFs are not specific for RA and treatment or spontaneous improvement and often falls as inflammatory joint activity very high RF titer suggests a worse prognosis and is often associated with progressive ticulate carriers such as latex or bentonite, are less specific but more sensitive than the present. The latex and bentonite tube dilution tests, utilizing human IgG adsorbed to par-SBE), a high RF titer provides helpful confirmation when the typical clinical syndrome is are found in many diseases (including granulomatous diseases, chronic liver disease, and show IgM RF, are found in about 70% of cases. Though RFs are not specific for by a general found in many diseases final are found in a final are found in the final are The ESR is elevated in 90% of cases. Antibodies to altered y-globulin, the so-calke

reduced viscosity, and usually contains 3000 to 50,000 WBCs/µL. Polymorphonuclear The synovial fluid, abnormal during active joint inflammation, is cloudy and sterile, has

Diffuse Connective Tissue Disease

TABLE 106-1. REVISED CRITERIA FOR CLASSIFICATION OF RHEUMATOID ARTHRITIS (1987)

🎮 4 criteria must be present to diagnose rheumatoid arthritis; criteria 1 through 4 must have been

- Morning stiffness for ≥ 1 h
- Arthritis of ≥ 3 joint areas
- Arthritis of hand joints (wrist, metacarpophalangeal or proximal interphalangeal joints)
- Preumatoid nodules
- Radiographic changes (hand x-ray changes typical of rheumatoid arthritis that must include erosions or unequivocal bony decalcification) Serum rheumatoid factor, by a method positive in < 5% of normal control subjects

rtera for the classification of rheumatoid arthritis." Arthritis Rheumatism 31:315-324, 1988; used with യാർ fed from Arnett FC, Edworthy S, Block DA, et al: "The American Rheumatism Association 1987 revised

Ref. typically predominate, but > 1/2 of the cells may be lymphocytes and other monoerum level. Crystals are absent in pure RA, excluding gout and pseudogout. राइप्रता in other inflammatory effusions. Synovial fluid complement is often < 30% of the macleur cells. Leukocyte cytoplasmic inclusions may be seen on a wet smear but are also

Subsequently, periarticular osteoporosis, joint space (articular cartilage) narrowing, and marginal erosions may be present. The rate of deterioration, both radiologically and fineally, is highly variable. Radiologically, only soft tissue swelling is seen in the first months of the disease.

the proposed new simplified criteria for the diagnosis of RA (see TABLE 106-1) that the previous terminology of "possible," "probable," "definite," and "clasnchased arthritis can meet the new proposed criteria, so that synovial fluid examination arthrits must still be considered as a potential exclusion. Some patients with crystalerreria can serve as a guide to clinical diagnosis. Almost any other disease that causes ru) often be helpful to exclude these. Most exclusions should be considered relative, since diseases causing arthritis occasionally coexist. The American College of Rheumatology (formerly, the American Rheumatism Associa-... While primarify intended as a communication aid for those in clinical research, these

ruty tophi. amyloid, and other nodules. When diagnosis is in doubt, subcutaneous nodules should be biopsied to differentiate

gressive systemic sclerosis, and dermato(poly)myositis may have features that resemble RA. RA patients, giving rise to the term "overlap syndrome." Some of these cases may reprent severe RA; others have associated SLE or other collagen disease. Polyarteritis, proaxicar factors, and visceral organ involvement are found in about 5% of otherwise typical exanded DNA, renal disease, and low serum complement levels. LE cells, positive antirenoral frontal hair loss, oral and nasal mucosal lesions, joint fluid with a WBC count Lizer usually can be distinguished by the characteristic skin lesions on light-exposed areas, tten < 2000/µL (predominantly mononuclear cells), positive antibodies to double-RA shares many features of other collagen vascular diseases, particularly SLE, but the Sarcoidosis, amyloidosis, Whipple's disease, and other systemic diseases may involve

π children. Infectious arthritis usually is monoarticular or asymmetric. Diagnosis depends cardiac murmurs, chorea, and erythema marginatum are much less common in adults than Lent streptococcal infection (culture or changing antistreptolysin-O [ASO] titer). Changing fever is differentiated by a migratory pattern of joint involvement and evidence of antece-Avenue: biopsy of appropriate tissues often differentiates these conditions. Acute rheumatic